

ABSTRACT OF THE DISCLOSURE

Stable dispersions of solid, semi-solid, and liquid resins can be prepared by merging into a mechanical disperser a stream of a molten or liquid disperse phase with a stream of a molten or liquid continuous phase to form a dispersion or emulsion. A polymer that is preferably a solid at room temperature, but molten at some advanced temperature may be dispersed with low molecular weight polymers, or intermediate molecular weight polymers continuously in an extruder. A low polydispersity powder-slurry curable coating composition having volume average particle sizes of less than 10 μm may be prepared by the method of the present invention. Pigmentation of a powder-slurry coating composition is conveniently accomplished by adding pigment to the melted polymer, or to the continuous phase, or to the dispersion after the continuous phase is merged with the disperse phase.